

552,942

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090384 A1

(51) International Patent Classification⁷: **F16H 31/00**,
E21B 19/083

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(21) International Application Number:
PCT/IB2004/001130

(22) International Filing Date: 14 April 2004 (14.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2002/8246 14 April 2003 (14.04.2003) ZA

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

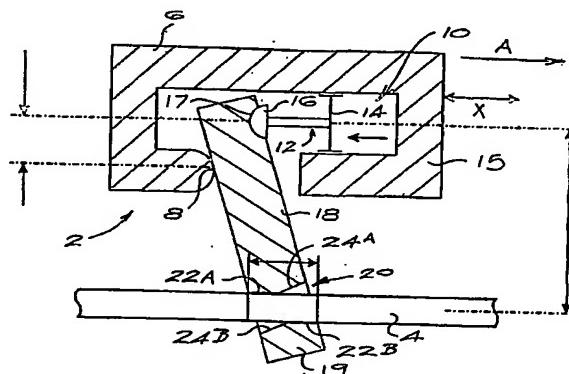
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR IMPARTING RELATIVE MOVEMENT BETWEEN AN OSCILLATING MEMBER AND A RAIL



(57) Abstract: The invention provides an apparatus (2) for imparting relative movement between an oscillating member and a rail (4). The apparatus (2) comprises a support (6) in the form of a housing providing a fulcrum (8) and biasing means (10) to bias a lever (18) about the fulcrum (8). The lever (18) has an engaging formation (20) spaced apart along its length from the fulcrum (8). The engaging formation (20) is configured to selectively grip and release the rail (4). In one embodiment of the inventions application, the housing (6) is secured to a percussion rock drill and the rail (4) secured in a position to allow drilling as desired. The lever (18) supports the rock drill above the rail (4). The oscillation of the drill and housing causes the lever (18) to pivot about the fixed fulcrum (8) against the bias of the biasing means (10). This disengages the grip of the engaging formation (20) and the drill is advanced along the rail (4). The mechanism is based on a friction drive on a rail (4) provided by applying force to an over center cross-corner locking lever (18) in one direction to produce a friction lock on the rail (4) and then applying force in the return direction to make the lever (18) slip along the rail (4). In this way the lever (18) forms a walking thrust arm for an oscillating member. The invention also provides for the same mechanism to be used to effect reverse movement of the drill along the rail (4). The rail (4) need not be straight and the mechanism can also be used to move a rail (4) in relation to an oscillating member.

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